

Title (en)

Apparatus for folding printed or paper products

Title (de)

Vorrichtung zum Falzen von Druck- oder Papierprodukten

Title (fr)

Appareil pour plier des produits imprimés ou des produits en papier

Publication

EP 0965551 A3 20000517 (DE)

Application

EP 99890193 A 19990616

Priority

AT 103498 A 19980616

Abstract (en)

[origin: EP0965551A2] The assembly to fold printed paper, and other paper materials, has two continuous conveyor belts (5,6) moving in the same direction between end deflection rollers (16,19). The belts have one level moving in the advance direction, with the other level moving in the reverse direction. A number of shaping rollers (9) are in a line, in succession, at the first section (a) of the advance belt level. On an axial section, the rollers (9) have a V-shaped convex peripheral surface, with a decreasing leg angle from roller to roller in the advance direction. A number of press rollers (8,11,13) are at the side of each conveyor belt away from the shaping rollers (9), to press the belts against the rollers on both sides of the legs in the first section (a) of the belts, and against each other in the second section (b). The press rollers (13) are in a pair at the conveyors belts (5,6) at the second section (b), on parallel axes. The roller (13) axes are rotated progressively round the feed direction from pair to pair. Each pair of press rollers (13) is mounted to a carrier, with an adjustable rotation round a center point between the rollers (13). Additional sliding guides are at the conveyor belts for the paper products, such as rails, standing belts, and the like. The conveyor belts (5,6) pass round a common end roller (19) at the end of the first section (a). The first press rollers (8) of the first section, and the final press rollers (13) of the second section (b) rotate on horizontal axes. An additional conveyor (3) feeds the paper material into the entry gap (7) between the first shaping roller (9) and the first section (a) of the conveyor belt level. Vibrating belts are over it, and to the sides, to give a side guiding action to the paper. Units to give a sliding and overlapping movement to the paper are before and/or after the conveyor belt assembly, using accelerated or decelerated movements to the paper, for positioning.

IPC 1-7

B65H 45/22

IPC 8 full level

B65H 45/22 (2006.01)

CPC (source: EP)

B65H 45/22 (2013.01); **B65H 2301/33212** (2013.01); **B65H 2301/4422** (2013.01)

Citation (search report)

- [A] DE 571796 C 19330306 - BREHMER GEB
- [DA] US 4747817 A 19880531 - NEWSOME JOHN R [US]
- [A] DE 2232169 A1 19730118 - LONGFORD EQUIP INT

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Designated contracting state (EPC)

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